		Flight-Testing Newton		
2009 Mathematics				
Virginia Mathematics	Standards of Learning			
Grades 9-12 (Algebra				
Activity/Lesson	State	Standards		
Session-10 (1-5)	VA	MA.9-12.A.4.a	The student will solve multistep linear and quadratic equations in two variables, including solving literal equations (formulas) for a given variable;  The student will solve multistep linear and	
Session-10 (1-5)	VA	MA.9-12.A.4.f	quadratic equations in two variables, including solving real-world problems involving equations and systems of equations.	
Session-10 (1-5)	VA	MA.9-12.A.8	The student, given a situation in a real-world context, will analyze a relation to determine whether a direct or inverse variation exists, and represent a direct variation algebraically and graphically and an inverse variation algebraically.	
Session-1 (1-17)	VA	MA.9-12.A.4.a	The student will solve multistep linear and quadratic equations in two variables, including solving literal equations (formulas) for a given variable;	
Session-1 (1-17)	VA	MA.9-12.A.4.f	The student will solve multistep linear and quadratic equations in two variables, including solving real-world problems involving equations and systems of equations.	
Session-1 (1-17)	VA	MA.9-12.A.11	The student will collect and analyze data, determine the equation of the curve of best fit in order to make predictions, and solve real-world problems, using mathematical models.  Mathematical models will include linear and quadratic functions.	
Session-2 (1-10)	VA	MA.9-12.A.4.a	The student will solve multistep linear and quadratic equations in two variables, including solving literal equations (formulas) for a given variable;	
Session-2 (1-10)	VA	MA.9-12.A.4.f	The student will solve multistep linear and quadratic equations in two variables, including solving real-world problems involving equations and systems of equations.	
Session-2 (1-10)	VA	MA.9-12.A.8	The student, given a situation in a real-world context, will analyze a relation to determine whether a direct or inverse variation exists, and represent a direct variation algebraically and graphically and an inverse variation algebraically.	
Session-3 (1-6)	VA	MA.9-12.A.4.a	The student will solve multistep linear and quadratic equations in two variables, including solving literal equations (formulas) for a given variable;	

			The student will solve multistep linear and
			quadratic equations in two variables, including
			solving real-world problems involving equations
Session-3 (1-6)	VA	MA.9-12.A.4.f	and systems of equations.
00001011 0 (1 0)	V/ \	100 (3 12.5 (.4.1	The student will solve multistep linear and
			quadratic equations in two variables, including
			solving literal equations (formulas) for a given
Session-4 (1-11)	VA	MA.9-12.A.4.a	variable;
	- V/ (	1717 (.0 12.7 (.1.0	The student will solve multistep linear and
			quadratic equations in two variables, including
			solving real-world problems involving equations
Session-4 (1-11)	VA	MA.9-12.A.4.f	and systems of equations.
	177		The student, given a situation in a real-world
			context, will analyze a relation to determine
			whether a direct or inverse variation exists, and
			represent a direct variation algebraically and
			graphically and an inverse variation
Session-4 (1-11)	VA	MA.9-12.A.8	algebraically.
, ,			The student will solve multistep linear and
			quadratic equations in two variables, including
			solving literal equations (formulas) for a given
Session-5 (1-6)	VA	MA.9-12.A.4.a	variable;
	177	177 1.0 127 1110	The student will solve multistep linear and
			quadratic equations in two variables, including
			solving real-world problems involving equations
Session-5 (1-6)	VA	MA.9-12.A.4.f	and systems of equations.
			The student, given a situation in a real-world
			context, will analyze a relation to determine
			whether a direct or inverse variation exists, and
			represent a direct variation algebraically and
			graphically and an inverse variation
Session-5 (1-6)	VA	MA.9-12.A.8	algebraically.
			The student will solve multistep linear and
			quadratic equations in two variables, including
			solving literal equations (formulas) for a given
Session-6 ( 1-8)	VA	MA.9-12.A.4.a	variable;
			The student will solve multistep linear and
			quadratic equations in two variables, including
			solving real-world problems involving equations
Session-6 ( 1-8)	VA	MA.9-12.A.4.f	and systems of equations.
			The student, given a situation in a real-world
			context, will analyze a relation to determine
			whether a direct or inverse variation exists, and
			represent a direct variation algebraically and
			graphically and an inverse variation
Session-6 ( 1-8)	VA	MA.9-12.A.8	algebraically.
			The student will solve multistep linear and
			quadratic equations in two variables, including
			solving literal equations (formulas) for a given
Session-7 (1-5)	VA	MA.9-12.A.4.a	variable;

			The student will solve multistep linear and
			quadratic equations in two variables, including
			solving real-world problems involving equations
Session-7 (1-5)	VA	MA.9-12.A.4.f	and systems of equations.
00001011 7 (1 0)	V/ (	1017 (.0 12.7 (.4.1	The student, given a situation in a real-world
			context, will analyze a relation to determine
			whether a direct or inverse variation exists, and
			represent a direct variation algebraically and
			graphically and an inverse variation
Session-7 (1-5)	VA	MA.9-12.A.8	algebraically.
, ,			The student will solve multistep linear and
			quadratic equations in two variables, including
			solving literal equations (formulas) for a given
Session-8 (1-9)	VA	MA.9-12.A.4.a	variable;
			The student will solve multistep linear and
			quadratic equations in two variables, including
			solving real-world problems involving equations
Session-8 (1-9)	VA	MA.9-12.A.4.f	and systems of equations.
			The student will solve multistep linear and
			quadratic equations in two variables, including
Consists 0 (4.7)	\/A	MA 0 10 A 1 a	solving literal equations (formulas) for a given
Session-9 (1-7)	VA	MA.9-12.A.4.a	variable; The student will solve multistep linear and
			quadratic equations in two variables, including
			solving real-world problems involving equations
Session-9 (1-7)	VA	MA.9-12.A.4.f	and systems of equations.
000010110 (17)	V/ (	1017 (.0 12.7 (.4.1	and systems of equations.
		Flight-Testing Newto	
		2009 Mathema	
Virginia Mathemati	00	Standards of Lea	arning
Grades 9-12 (Algeb		and Data Analysis)	
Activity/Lesson	State	Standards	
Activity/Lesson	State	Standards	The student will transfer between and analyze
			multiple representations of functions, including
			algebraic formulas, graphs, tables, and words.
			Students will select and use appropriate
		MA.9-	representations for analysis, interpretation, and
Session-10 (1-5)	VA	12.AFDA.4	prediction.
- /			The student will transfer between and analyze
			multiple representations of functions, including
			algebraic formulas, graphs, tables, and words.
			Students will select and use appropriate
		MA.9-	representations for analysis, interpretation, and
Session-1 (1-17)	VA	12.AFDA.4	prediction.
			The student will transfer between and analyze
			multiple representations of functions, including
			algebraic formulas, graphs, tables, and words.
			Students will select and use appropriate
0		MA.9-	representations for analysis, interpretation, and
Session-2 (1-10)	VA	12.AFDA.4	prediction.

			T
			The student will transfer between and analyze
			multiple representations of functions, including
			algebraic formulas, graphs, tables, and words.
			Students will select and use appropriate
		MA.9-	representations for analysis, interpretation, and
Session-4 (1-11)	VA	12.AFDA.4	prediction.
,			The student will transfer between and analyze
			multiple representations of functions, including
			algebraic formulas, graphs, tables, and words.
			Students will select and use appropriate
		MA.9-	representations for analysis, interpretation, and
Cossion F (1 6)	VA	12.AFDA.4	
Session-5 (1-6)	VA	IZ.AFDA.4	prediction.
			The student will transfer between and analyze
			multiple representations of functions, including
			algebraic formulas, graphs, tables, and words.
			Students will select and use appropriate
		MA.9-	representations for analysis, interpretation, and
Session-6 ( 1-8)	VA	12.AFDA.4	prediction.
			The student will transfer between and analyze
			multiple representations of functions, including
			algebraic formulas, graphs, tables, and words.
			Students will select and use appropriate
		MA.9-	representations for analysis, interpretation, and
Session-7 (1-5)	VA	12.AFDA.4	prediction.
( )	17.		The student will transfer between and analyze
			multiple representations of functions, including
			algebraic formulas, graphs, tables, and words.
			Students will select and use appropriate
		MA.9-	
Cooriem 0 (4.0)	\( \lambda \)		representations for analysis, interpretation, and
Session-8 (1-9)	VA	12.AFDA.4	prediction.
			The student will transfer between and analyze
			multiple representations of functions, including
			algebraic formulas, graphs, tables, and words.
			Students will select and use appropriate
		MA.9-	representations for analysis, interpretation, and
Session-9 (1-7)	VA	12.AFDA.4	prediction.
		Flight-Testing New	
		2009 Mathen	
Vinninia Mathamati	1	Standards of L	earning
Virginia Mathemati		omotima)	
Grades 9-12 (Algeb Activity/Lesson	State	Standards	
ACTIVITY/LESSOTI	State	Statiualus	
			The student, given rational, radical, or
			polynomial expressions, will add, subtract,
		NAA 0	multiply, divide, and simplify radical expressions
0	/A	MA.9-	containing rational numbers and variables, and
Session-10 (1-5)	VA VA	12.AII/T.1.b	expressions containing rational exponents;

			The student will identify, create, and solve real- world problems involving inverse variation, joint variation, and a combination of direct and
Session-10 (1-5)	VA	MA.9-12.AII/T.10	inverse variations.
Session-1 (1-17) Session-1 (1-17)	VA VA	MA.9- 12.AII/T.1.b MA 9-12 AII/T 10	The student, given rational, radical, or polynomial expressions, will add, subtract, multiply, divide, and simplify radical expressions containing rational numbers and variables, and expressions containing rational exponents;  The student will identify, create, and solve real-world problems involving inverse variation, joint variation, and a combination of direct and inverse variations.
	V/ (	147.13 12.3 (17.11)	inverse variations.
Session-2 (1-10)	VA	MA.9- 12.AII/T.1.b	The student, given rational, radical, or polynomial expressions, will add, subtract, multiply, divide, and simplify radical expressions containing rational numbers and variables, and expressions containing rational exponents;
Session-2 (1-10)	VA	MA.9-12.AII/T.10	The student will identify, create, and solve real- world problems involving inverse variation, joint variation, and a combination of direct and inverse variations.
Session-3 (1-6)	VA	MA.9- 12.AII/T.1.b	The student, given rational, radical, or polynomial expressions, will add, subtract, multiply, divide, and simplify radical expressions containing rational numbers and variables, and expressions containing rational exponents;
Session-3 (1-6)	VA	MA.9-12.AII/T.10	The student will identify, create, and solve real-world problems involving inverse variation, joint variation, and a combination of direct and inverse variations.
Session-4 (1-11)	VA	MA.9- 12.AII/T.1.b	The student, given rational, radical, or polynomial expressions, will add, subtract, multiply, divide, and simplify radical expressions containing rational numbers and variables, and expressions containing rational exponents;  The student will identify, create, and solve real-world problems involving inverse variation, joint
Session-4 (1-11)	VA	MA.9-12.AII/T.10	variation, and a combination of direct and inverse variations.
Session-5 (1-6)	VA	MA.9- 12.AII/T.1.b	The student, given rational, radical, or polynomial expressions, will add, subtract, multiply, divide, and simplify radical expressions containing rational numbers and variables, and expressions containing rational exponents;

Session-5 (1-6)	VA	MA.9-12.AII/T.10	The student will identify, create, and solve real- world problems involving inverse variation, joint variation, and a combination of direct and inverse variations.
Session-6 ( 1-8)	VA	MA.9- 12.AII/T.1.b	The student, given rational, radical, or polynomial expressions, will add, subtract, multiply, divide, and simplify radical expressions containing rational numbers and variables, and expressions containing rational exponents;
Session-6 ( 1-8)	VA		The student will identify, create, and solve real-world problems involving inverse variation, joint variation, and a combination of direct and inverse variations.
Session-7 (1-5)	VA	MA.9- 12.AII/T.1.b	The student, given rational, radical, or polynomial expressions, will add, subtract, multiply, divide, and simplify radical expressions containing rational numbers and variables, and expressions containing rational exponents;
Session-7 (1-5)	VA		The student will identify, create, and solve real-world problems involving inverse variation, joint variation, and a combination of direct and inverse variations.
Session-8 (1-9)	VA	MA.9- 12.AII/T.1.b	The student, given rational, radical, or polynomial expressions, will add, subtract, multiply, divide, and simplify radical expressions containing rational numbers and variables, and expressions containing rational exponents;
Session-8 (1-9)	VA		The student will identify, create, and solve real-world problems involving inverse variation, joint variation, and a combination of direct and inverse variations.
Session-9 (1-7)	VA		The student, given rational, radical, or polynomial expressions, will add, subtract, multiply, divide, and simplify radical expressions containing rational numbers and variables, and expressions containing rational exponents;
Session-9 (1-7)	VA		The student will identify, create, and solve real-world problems involving inverse variation, joint variation, and a combination of direct and inverse variations.